

# EPIB 705. DOCTORAL LEVEL EPIDEMIOLOGIC METHODS 2.

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Credits: 4

Offered by: Epidemiology and Biostatistics (Graduate Studies)

Terms offered: Winter 2026

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## Description

The course has a conceptual and analytical causal inference perspective. The nature of specific study biases resulting in non-causal components in the observed association between exposure and outcome are discussed, including endogenous selection bias, measured and unmeasured confounding, and measurement error. Methods to recover the causal effect with such biases are presented. Causal mediation analysis is discussed. Models for survival analysis are discussed as well as the problem of- and some solutions to missing data. A brief overview of genetic epidemiology principles is covered.

- Prerequisite(s): EPIB 704
- Restriction(s): Open to Ph.D. students in Epidemiology or Biostatistics programs only.
- Not open to students who have taken EPIB 608.

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